AGENCY USE ONLY PERMIT NO.: Date Rec'd.: Amount Rec'd .: Check No.: Rec'd By: MTG 010178 10/23/13 600.00 7897 ひり Montana Department of WATER PROTECTION BUREAU FORM Notice of Intent (NOI) for Montana Pollution Discharge Elimination NOI System Application for New and Existing Concentrated Animal **Feeding Operations** The Application form is to be completed by the owner or operator of a Concentrated Animal Feeding Operation (CAFO) or Aquatic Animal Production Facility. Please read the attached instructions before completing this form. You must print or type legibly; forms that are not legible or are not complete will be returned. You must maintain a copy of the completed application form for your records. Section A - Application Status (Check one): RECEIVED New No prior application submitted for this site. Resubmitted-Permit Number: MTG OCT 2 3 2013 X Renewal Permit Number: MTG O 1 O 1 7 8 Permit Number: MTG \_\_\_\_\_\_ DEOMPB Modification PERMITTING & COMPLIANCE DIV. Section B - Facility or Site Information (See instruction sheet.): Site Name North Montana FEEDERS INC. Site Location 4841 Hwy 89 Choteau Mt Nearest City or Town Choteau County Teton Latitude 47.88879 Longitude 112.26329 Date Facility began operation? \_\_1972 Is this facility or site located on Indian Lands? Yes X No Section C - Applicant (Owner/Operator) Information: Owner or Operator Name North Montana FEEDERS INC. Mailing Address 4841 Hwy 89 City, State, and Zip Code Choteau, Mt. 59422 Phone Number 406-466-2971 Is the person listed above the owner? X Yes No Status of Applicant (Check one) Federal X State Private Public Other (specify)

W	8	1 01 111111119 (	zei micanons, o	r Approvals: Livone	
MPDES	PDES RCRA				
PSD (Air Emissions) Other					
404 Permit (dr	edge & fill)			Other	
Section E – Stan	dard Industria	al Classific	ation (SIC) Cod	les:	
Provide at least o	ne SIC code whi	ch best refle	ects the activity of	project described in Section H.	
Code A. Primary Code B. Second					
1 211	Beef Cattle		<i>†</i> - 2		
Code	C. Thire	t t	Code	D. Fourth	
3			3		
Section F - Facilit	ty or Site Cont	act Person	/Position:		
	-			icker Manager/Presid	ent
Mailing Address _				• •	
City, State, and Zi				9422	
					•
				IVER 7 5 miles down Grad	iont
				ude and longitude to the nearest second and	
Outian/L	Pischarge Locatio		name of the rece	<del>-</del>	
	Outfall Number Latitude Long				
Outfall	Number L	.atitude	Longitude	Receiving Surface Waters	
0	01 ฝุก			Receiving Surface Waters Teton River > 5 miles down Grad	ent
0	01 <b>以り</b> 02				ent
00 00 00	01 以り 02 03				ent
00 00 00 00	01 47 02 03 04				ent
00 00 00 00	01 以り 02 03				ent
00 00 00 00	01 47 02 03 04				ent

Section H – Concentration Animal Feeding Operation Characteristics Waste Production, Storage and Disposal

	Animal type	Number in Open Confinement	Number Housed Under Roof
	Mature Dairy Cows		
	Dairy Heifers		
	Veal Calves		
X	Cattle (not dairy or veal)	8000	
	Swine (55 lbs or over)		
	Swine (55 lbs or under)		
	Horses		
	Sheep or Lambs		
	Turkeys		
	Chickens (broilers)		
	Chickens (layers)		
	Ducks		
	Other (Specify:)		
	Other (Specify:)		
	Other (Specify:)		

	e, litter, and p	process wastew	tion and Use. ater is generated annually by the Liquid/Slurry (gall	•	_	
	er generated f		control of the permit applicant and the control of the permit applicant and control of the control of the permit applicant and control of the permit and control of the permit applicant applicant and control of the permit applicant and control of			
How much manure (tons): 10	e, litter, and p	process wastew	ater is transferred to other persoLiquid/Slurry (gallons):	ons per yea	ar? (estimated)	Solid
forma  To the	waste contaitions? <b>y E</b> e waste conta	nment structur <b>5</b> inment structur	bruary 2006? es have 10 feet of separation bet res have 4 feet of separation fron at structures built within 500 fee	m the pon	d bottom and a	any ground water? <b>YE</b>

	Type of Containment/Jorage	Total Capacity	Units (gallons or tons)	Days of Storage	
	☐ Anaerobic Lagoon				
	Storage Pond #1 Lined Exponetion		754,560 gallons	365	
	☐ Storage Pond #2				
	☐ Storage Pond #3				
	☐ Storage Pond #4				
	☐ Storage Pond #5				
	☐ Above Ground Storage Tank			- 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
	☐ Below Ground Storage Tank #1				
	☐ Below Ground Storage Tank #2				
	☐ Underfloor Pits				
	☐ Roofed Storage Shed		***************************************		
	☐ Concrete Pad				
	☐ Impervious Soil Pad				
	☐ Other (Specify: )				
	☐ Other (Specify: )				
Dhassies		l			
a mysica	al Data for CAFO				
the Depa develope One)  Date  Date  NMF	ent a Nutrient Management (NMP). The NM artment (Form NMP). Check the box below ed in accordance with ARM 17.30.1334 and as the facility have an NMP? e NMP was developed:  2005  NMP was last modified:  Chas not been prepared; provide detailed expenses the provide detailed expenses the control of the contr	that applies and primplemented upon	ovide the required informa	ation. The NMP n	nust be
Section	I – Supplemental Information				
		1			

## Section J - CERTIFICATION

#### Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

# All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A.	Name	(Type	or	Print)
----	------	-------	----	--------

MARK DeBruycker

B. Title (Type or Print)

President

C. Phone No.

466-2971

D. Signature

E. Date Signed

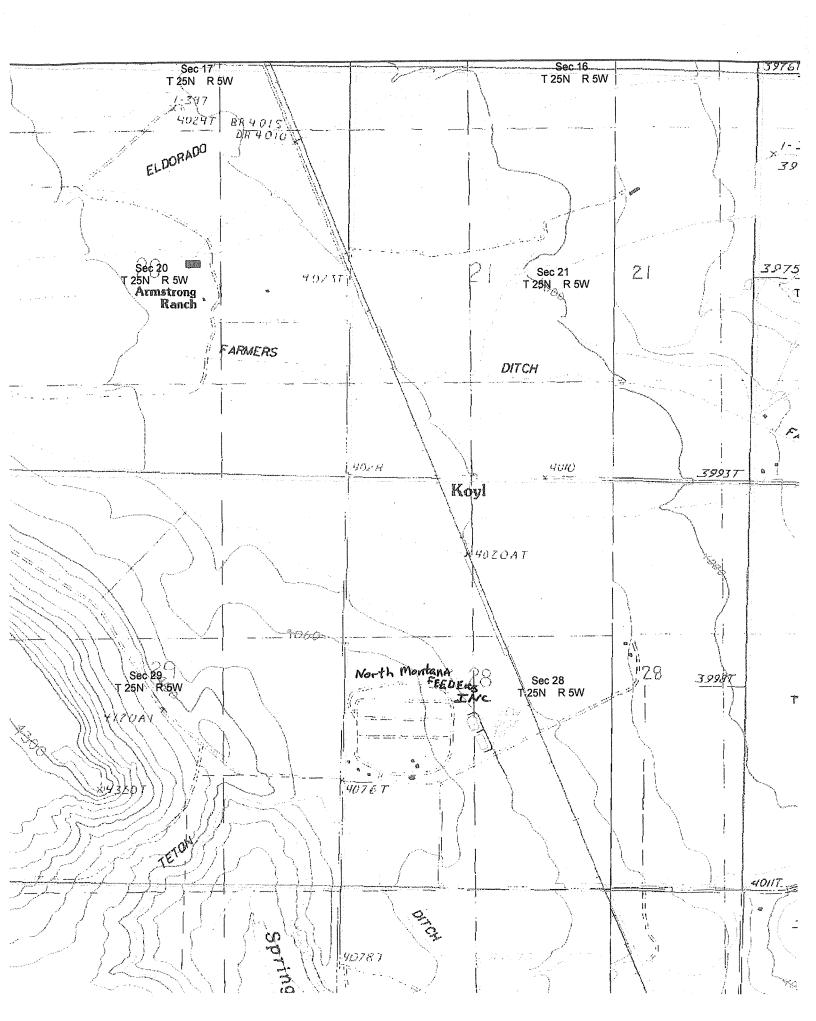
The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form (NOI) and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

OCT 2 3 2013

DEQ.WPB
PERMITTING & COMPLIANCE DIV.

# VOILI IVIOIITATA FEEUEIS



AGENCY USE ONLY					
PERMIT NO.: Date Rec'd.: Amount Rec'd.: Check No.: Rec'd By:					
mt6010178	10/23/13	\$ 600	1 #27897	DD by:	
Montana Department of  Environmental Quality  WATER PROTECTION BUREAU					
FORM NMP	Nutrio	ent Mana	gement Pla	lm	
READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For filling out Form NMP," found at the back of this form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your NOI-CAFO. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. The 2013 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or <a href="http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp">http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp</a>					
Section A – NMP Status:  New No prior NMP su	ubmitted for this sit	e.	RECEI	VED	
Resubmitted Previous NMP for	ound incomplete.		OCT 23	2013	
and the second s	e to existing NMP.		DEQ/WPI PERMITTING & COM	B PLIANCE DIV	
New 2013 New 2013 version	on of NMP.			Lory.	
Section B – Facility Information:					
Facility Name North Montana					
Facility Location 4841 Hwy 89 Choteau Mt 59422					
Nearest City of Town Choteau County Teton					
Section C – Applicant (Owner/Opera	,				
Owner or Operator Name North		EEDERS IA	<i>3</i> C		
Mailing Address 4841 Hwy					
City, State, and Zip code _ Chotea	in, Mt.	59422	_		
Facility Phone Number 406-466-2971					

Email\_

Section	on D – NMP Minimum Elements:		
	1. Livestock Statistics		
	Animal Type and number of animals	# of Days on Site (per year)	Annual Manure Production (tons, cu. yds. or gal
	1. FEERER/ AVERAGE 60/4hd Finisher cattle 2.	365	19207 Tons
,	3.		
	4.	,	
	5.		
	6.		
	7.		
	8. od used for estimating annual man		
a. Do	he manure can be Train Local farmers for	ility: PENS ARE Scraped nsfered. ALL Manure Land Application  confinement areas: IN the F before seeding. Some in	is Transfered
c. Is i	this manure temporarily stored in a so then how and where?	any location other than the confinem	ent area?  Yes No
	manure stored on impervious surfa yes, describe type and characteristi		

#### 5. Clean Water Diversion Practices

Describe how clean water is diverted from production area:

Ditches and Berms

6. Prohibiting Animals and Wastes from Contact with State Waters Describe how animals and wastes are prohibited from direct contact with state waters:

Animals ARE FENCED, Bitches And Berms

Describe how Chemicals and other contaminants are handled on-site:

PER Manufacturers Reccommendations

# 7. Best Management Practice (BMPS)

Describe in detail all temporary, permanent and structural BMPS which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. If BMPS are not installed include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces,, and waterways above and open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage: providing more roofed area: decreasing open lot surface area; repairing of adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.

Production Area BMP's A CNMP was prepared by NRCS in 2005 4 is on file at the site. The plan AddressEs the Run off concerns by diverting wastewater to A Lined (EPDM, 45 mil) Evaporation pond. which can be pumped out And Transferred. A Strawkwind break is used on the west side to prevent manure Transfer by wind. \* SEE SITE MAD ENCLOSED

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's land production area. Indicate the location of these practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites;

-		ground: consulting with the Dep	
liquid waste to frozen or s		ound; applying wastes at agrono	mic rates.
Land Application BMP's	No Lau	nd Application	
	1*		
Buffers	Yes No	<b>Conservation Tillage</b>	Yes No
Constructed Wetlands	Yes No	Grass Filter	☐ Yes ☐ No
Infiltration Field	☐ Yes ☐ No	Residue Management	Yes No
Set backs	☐ Yes ☐ No	Terrace	☐ Yes ☐ No
Other examples	Вначи владей опексология		Syndates verteropes
8. Implementation, Opera	tion, Maintena	nce and Record Keeping – Guida	nnce
The permittee is required	to develop guid	lance addressing implementation	of NMP, proper operation and
maintenance of the facility	y, and record k	eeping as described in Part 2 of t	he permit.
Has a guidance document	been developed	I for the facility? Xes	No
Certify the document add	ress the followi	ng requirements:	
Implementation of the NM	IP:	X Yes No	
Facility operation and ma	intenance:	▼ Yes No	
Record keeping and repor	ting	▼ Yes No	
Sample collection and ana	lysis:	X Yes No	
Manure transfer		▼ Yes No	
Provide name, date and lo			
KEPT	on site		
If your answer to any of	the above ques	tion is no, provide explanation:	
*			

Section E – Land Application
Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?
Yes If yes, then the information requested in Section E must be provided.
No If no, then provide an explanation of how animal waste at this facility are managed.
Storeo in pens until Transfered
Photos and/or Maps  Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if

Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"X 17" piece of paper, and must clearly identify the following items:

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The location of any downgradient surface waters.
- The location of any downgradient open tile line intake structures
- The location of any downgradient sinkholes
- The location of any downgradient agricultural well heads
- The location of all conduits to surface waters
- The specific manure/waste handling or nutrient management restrictions associated with each land application field
- The soil type(s) present and their locations within the individual land application field(s)
- The location of buffers and setbacks around state surface waters, well heads, etc.

# **Land Application Equipment Calibration**

Describe the type of equipment used to land apply wastes and the calibration procedures:

## Manure Sampling and Analysis Procedures

A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining rates for manure, litter, and process wastewater.

Manure Sample collection will occur according to ARM 17.30.1334

Other (describe)

#### Soil Sampling and Analysis Procedures

Representative soil (composite) samples from the top 6 inches layer of soil for each field where manure will be applied must be analyzed for phosphorus content at least once every three years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater

Soil samples collection will occur according the methods in ARM 17.30.1334

Other (describe)

#### Phosphorus Risk Assessment

The permittee shall access the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or

may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

### Method Used

Indicate which method will be used to determine phosphorus application:

Method A – Representative Soil Sample

Method B – Phosphorus Index

## Method A - Representative Soil Sample

- a. Obtain one or more representative soil sample(s) from the field per 17.30.1334
- b. Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm)
- c. Using the results of the Olsen P test, determine application basis according to the Table below.

#### Soil Test

Olsen P Soil Test Results (ppm)	Application Basis
<25.0	Nitrogen Needs of Crop
25.1 - 100.0	Phosphorus Needs of Crop
100.0 – 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application allowed

#### Method B – Phosphorus Index

- a. Complete a phosphorus Index according to the crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections in Appendix A, please refer to the method as described in Natural Resource Conservation Service (NRCS), Agronomy Technical Note MT-77 (rev3), January 2006.
- b. Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

**Total Phosphorus** 

Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

c. Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

The applicant has 2 ways in which to report how manure or process wastewater application rates can be reported to DEQ.

- 1. Linear Approach. Expresses rates of application as pounds of nitrogen and phosphorus. CAFOs selecting the linear approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:
- The maximum application rate (pounds/acre/year of nitrogen and phosphorus) from manure, litter, and process wastewater.
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. [If a state does not have an N transport risk assessment, the NMP must document any basis for assuming that nitrogen will be fully used by crops.] The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted or any other uses of a field such as pasture or fallow fields.
- The realistic annual yield goal for each crop or use identified for each field.
- The nitrogen and phosphorus recommendations from in ARM 17.30.1334 (technical standard) for each crop or use identified for each field.
- Credits for all residual nitrogen in each field that will be plant-available.
- Consideration of multi-year phosphorus application. For any field where nutrients are applied at a rate based on the crop phosphorus requirement, the NMP must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement.
- All other additions of plant available nitrogen and phosphorus (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen).
- The form and source of manure, litter, and process wastewater to be land-applied.
- The timing and method of land application. The NMP also must include storage capacities needed to ensure adequate storage that accommodates the timing indicated.
- The methodology that will be used to account for the amount of nitrogen and phosphorus in the manure, litter, and wastewater to be applied.
- Any other factors necessary to determine the maximum application rate identified in accordance with this Linear Approach.
- 2. Narrative Rate Approach. Expresses a narrative rate of application that results in the amount, in tons or gallons, of manure, litter, and process wastewater to be land applied. CAFOs selecting the narrative rate approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:
- The maximum amounts of nitrogen and phosphorus that will be derived from all sources of nutrients (pounds/acre for each crop and field).
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted in each field or any other uses of a field such as pasture or fallow fields, including alternative crops if applicable. Any alternative crops included in the NMP must be listed by field, in addition to the crops identified in the planned crop rotation for that field.
- The realistic annual yield goal for each crop or use identified for each field for each year, including any alternative crops identified.
- The nitrogen and phosphorus recommendations from [the permitting authority to specify acceptable sources] for each crop or use identified for each field, including any alternative crops identified.
- The methodology (including formulas, sources of data, protocols for making determination, etc.) and actual data that will be used to account for: (1) the results of soil tests required by Parts II.A.4.b and III.A.3.g of this

permit, (2) credits for all nitrogen in the field that will be plant- available, (3) the amount of nitrogen and phosphorus in the manure, litter, and process wastewater to be applied, (4) consideration of multi-year phosphorus application (for any field where nutrients are applied at a rate based on the crop phosphorus requirement, the methodology must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement), (5) all other additions of plant available nitrogen and phosphorus to the field (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen), (6) timing and method of land application, and (7) volatilization of nitrogen and mineralization of organic nitrogen.

- Any other factors necessary to determine the amounts of nitrogen and phosphorus to be applied in accordance with the Narrative Rate Approach.
- NMPs using the Narrative Rate Approach must also include the following projections, which will not be used by the permitting authority in establishing site-specific permit terms:
- i. Planned crop rotations for each field for the period of permit coverage.
- ii. Projected amount of manure, litter, or process wastewater to be applied.
- iii. Projected credits for all nitrogen in the field that will be plant-available.
- iv. Consideration of multi-year phosphorus application.
- v. Accounting for other additions of plant-available nitrogen and phosphorus to the field.
- vi. The predicted form, source, and method of application of manure, litter, and process wastewater for each crop
  - If the receiving water is on the 303(d) list for nutrients then the narrative rate approach must be used.
  - a. For the Linear Approach the permittee will complete the Nutrient Budget Worksheet, below, for the next 5 years to which manure or process waste water is or may be applied. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nu	trient	Budget Worksheet				
Field identification: Year: Crop:						
Expected Crop Yield:						
Phosphorus index results or Phosphorus application from soil test:						
Method of Application:						
When will application occur:						
Nu	trient	Budget	Nitrogen-based	Phosphorus-	Source of	
		,	Application	based	information	
		1		Application		
1		Crop Nutrient Needs,				
	<u> </u>	lbs/acre				
2	(-)	Credits from previous		,		
	1	legume crops, lbs/ac				
3	(-)	Residuals from past manure		!		
		production lbs/acre				
		Nutrients supplied by		!		
4	(-)	commercial fertilizer and		1		
	ļ	Biosolids, lbs/acre		<u> </u>		
5	(-)	Nutrients supplied in		!		
		irrigation water, lbs/acre		<u> </u>		
6	!	= Additional Nutrients				
		Needed, Ibs/acre				
<u> </u>		Total Nitrogen and		<del>                                     </del>		
<u>.</u>	!	Total Nitrogen and Phosphorus in manure,				
7		lbs/ton or lbs/1000 gal				
		(from manure test)				
		Nutrient Availability factor,				
8	(x)	for Phosphorus based				
		application use 1.0				
		= Available Nutrients in				
9		Manure, lbs/ton or				
		lbs/1000 gal		,		
		Additional Nutrients				
10		needed, lbs/acre (calculated				
	[]	above)				
		Available Nutrients in				
11	(/)	Manure, lbs/ton or lbs/1000				
		gal (calculated above)				
1		= Manure Application				
12		Rate, tons/acre or 1000				
	. [	gal/acre				

Comments:

## Section F - CERTIFICATION

Permittee Information: This form must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

## All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)  MARK De Bruycker	
B. Title (Type or Print)	C. Phone No.
President	466-2971
D. Signature	E. Date Signed
While Do Myt	10-22-13

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

OCT 2 3 2013

DEQWP8
PERMITTING & COMPLIANCE DOW